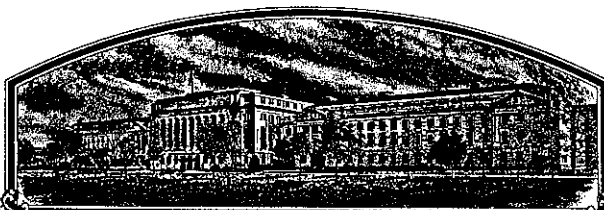


No.

8900291



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Northrup King Co.

Whereas, THERE HAS BEEN PRESENTED TO THE  
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'6955'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington, D. C.  
this 30th day of April in  
the year of our Lord one thousand nine  
hundred and ninety-one.

Attest:

*Kenneth Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Ed Madigan*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

<b>1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)</b>  Northrup King Company		<b>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.</b>  Co 82-824	<b>3. VARIETY NAME</b>  6955
<b>4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)</b>  P. O. Box 959 Minneapolis, MN 55440		<b>5. PHONE (include area code)</b>  612-593-7333	
<b>6. GENUS AND SPECIES NAME</b>  Glycine max		<b>7. FAMILY NAME (Botanical)</b>  Leguminosae	
<b>8. CROP KIND NAME (Common Name)</b>  Soybean		<b>9. DATE OF DETERMINATION</b>  January, 1987	
<b>10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)</b>  Corporation			
<b>11. IF INCORPORATED, GIVE STATE OF INCORPORATION</b>  Delaware		<b>12. DATE OF INCORPORATION</b>  1976	
<b>13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS</b>  Warren D. Springer Northrup King Co. P. O. Box 959 Minneapolis, MN 55440			
PHONE (include area code): 612-593-7285			
<b>14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)</b> <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety.</li> <li>b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement.</li> <li>c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety.</li> <li>d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety.</li> <li>e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership.</li> <li>f. <input checked="" type="checkbox"/> Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____</li> <li>g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."</li> </ul>			
<b>15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.)</b> <input type="checkbox"/> YES (If "YES," answer items 16 and 17 below) <input checked="" type="checkbox"/> NO (If "NO," skip to item 18 below)			
<b>16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO		<b>17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?</b> <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
<b>18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?</b> <input type="checkbox"/> YES (If "YES," through <input checked="" type="checkbox"/> Plant Variety Protection Act <input type="checkbox"/> Patent Act. Give date: _____) <input type="checkbox"/> NO			
<b>19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?</b> <input type="checkbox"/> YES (If "YES," give names of countries and dates) <input checked="" type="checkbox"/> NO      U.S.A., January, 1989			
<b>20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.</b> The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT [Owner(s)]  Warren D. Springer		CAPACITY OR TITLE  Manager, Regulatory Affairs	
SIGNATURE OF APPLICANT [Owner(s)]		CAPACITY OR TITLE	
DATE  22 March 1991		DATE	

## EXHIBIT A

ORIGIN AND BREEDING HISTORY OF 6955

In 1978, the Coker soybean breeding group at Hartsville, SC made the cross Coker 237 x D74-7741 from which the variety 6955 is derived. D74-7741 is a breeding line derived from Forrest x D70-3001, where D70-3001 is a sister-line of the variety, Centennial.

The  $F_1$  was advanced to the  $F_2$  in the field at Hartsville in 1979, and the  $F_2$  and  $F_3$  generations were advanced by modified single seed descent in two greenhouse plantings during the winter of 1979-80. The  $F_4$  generation was subsequently grown in the field in 1980, and single-plant selections were made at harvest. The  $F_5$  progeny from these plants were evaluated for resistance to race 3 of soybean cyst nematode during the winter of 1980-81. The resistant  $F_5$  lines were grown in progeny rows in the field in 1981, and one row was selected, harvested in bulk, and designated Co 82-824. From 1982-84, Co 82-824 was evaluated in yield trials throughout the midsouth and southeastern United States. During this period, the line was characterized as having white flowers, tawny pubescence, tan pods, black hilum color, absence of seed coat luster, and resistance to race 1 of Phytophthora root rot. Co 82-824 was further evaluated in advanced yield trials across a wide range of environments from 1985-88, and based on its yield superiority and disease resistance, it was released as 6955 in January, 1989.

Breeder's seed was produced in 1987 by bulking seed from intensely rogued progeny rows. Foundation seed was produced and approved by the Arkansas State Plant Board in 1988. Varietal purity will be maintained by using progeny rows and roguing as needed.

6955 is a uniform stable variety except it may contain plants with purple flowers at a frequency of 1/5,000. During seven years of testing and four years of seed increase, we have observed no other off-types except for minor environmentally induced variation in intensity of hilum color.

**EXHIBIT B****NOVELTY STATEMENT FOR THE VARIETY 6955 SOYBEANS**

Soybean variety 6955 is most similar to the varieties A5474 and Forrest. It can be differentiated from A5474 on the basis of pod color. 6955 has tan pods and A5474 has brown pods. 6955 can be differentiated from Forrest on the basis of Phytophthora resistance. 6955 is resistant to race 1 of Phytophthora root rot, whereas, Forrest is susceptible.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN & SEED DIVISION  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MARYLAND 20705

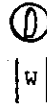
EXHIBIT C  
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (*Glycine max* L.)

NAME OF APPLICANT(S) Northrup King Co.	TEMPORARY DESIGNATION Co 82-824	VARIETY NAME 6955
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) Northrup King Co. Attention: R.W. Romig P.O. Box 959 Minneapolis, MN 55440		FOR OFFICIAL USE ONLY PVPO NUMBER 8900291

Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g.,   ). Starred characters ★ are considered fundamental to an adequate soybean variety description. Other characters should be described when information is available.

1. SEED SHAPE:



1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)  
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)

2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)  
4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)

★ 2. SEED COAT COLOR: (Mature Seed)

1 = Yellow      2 = Green      3 = Brown      4 = Black      5 = Other (Specify) \_\_\_\_\_

3. SEED COAT LUSTER: (Mature Hand Shelled Seed)

1 = Dull ('Corsoy 79'; 'Braxton')      2 = Shiny ('Nebsoy'; 'Gasoy 17')

★ 4. SEED SIZE: (Mature Seed)

Grams per 100 seeds

★ 5. HILUM COLOR: (Mature Seed)

1 = Buff      2 = Yellow      3 = Brown      4 = Gray      5 = Imperfect Black      6 = Black      7 = Other (Specify) \_\_\_\_\_

★ 6. COTYLEDON COLOR: (Mature Seed)

1 = Yellow      2 = Green

★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:

1 = Low      2 = High

★ 8. SEED PROTEIN ELECTROPHORETIC BAND:

1 = Type A (SP1<sup>a</sup>)      2 = Type B (SP1<sup>b</sup>)

★ 9. HYPOCOTYL COLOR:

1 = Green only ('Evans'; 'Davis')      2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')  
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')  
4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')

★ 10. LEAFLET SHAPE:

1 = Lanceolate      2 = Oval      3 = Ovate      4 = Other (Specify) \_\_\_\_\_

## 11. LEAFLET SIZE:

☐ 21 = Small ('Amsoy 71'; 'A5312')  
3 = Large ('Crawford'; 'Tracy')

2 = Medium ('Corsoy 79'; 'Gasoy 17')

## 12. LEAF COLOR:

☐ 21 = Light Green ('Weber'; 'York')  
3 = Dark Green ('Gnome'; 'Tracy')

2 = Medium Green ('Corsoy 79'; 'Braxton')

## ★ 13. FLOWER COLOR:

☐ 1

1 = White

2 = Purple

3 = White with purple throat

## ★ 14. POD COLOR:

☐ 1

1 = Tan

2 = Brown

3 = Black

## ★ 15. PLANT PUBESCENCE COLOR:

☐ 2

1 = Gray

2 = Brown (Tawny)

## 16. PLANT TYPES:

☐ 21 = Slender ('Essex'; 'Amsoy 71')  
3 = Bushy ('Gnome'; 'Govan')

2 = Intermediate ('Amcor'; 'Braxton')

## ★ 17. PLANT HABIT:

☐ 1

1 = Determinate ('Gnome'; 'Braxton')

2 = Semi-Determinate ('Will')

3 = Indeterminate ('Nebsoy'; 'Improved Pelican')

## ★ 18. MATURITY GROUP:

☐ 0 ☐ 8

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

## ★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

## BACTERIAL DISEASES:

★

☐ 2Bacterial Pustule (*Xanthomonas phaseoli* var. *sojensis*)

★

☐ 1Bacterial Blight (*Pseudomonas glycinea*)

★

☐ 2Wildfire (*Pseudomonas tabaci*)

## FUNGAL DISEASES:

★

☐ 1Brown Spot (*Septoria glycines*)Frogeye Leaf Spot (*Cercospora sojina*)

★

☐ 0

Race 1

☐ 0

Race 2

☐ 0

Race 3

☐ 0

Race 4

☐ 0

Race 5

☐ 0

Other (Specify)

☐ 0Target Spot (*Corynespora cassicola*)☐ 0Downy Mildew (*Peronospora trifoliorum* var. *manshurica*)☐ 2Powdery Mildew (*Microsphaera diffusa*)

★

☐ 0Brown Stem Rot (*Cephalosporium gregatum*)☐ 2Stem Canker (*Diaporthe phaseolorum* var. *caulivora*)

## 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)

## FUNGAL DISEASES: (Continued)

- ★  Pod and Stem Blight (*Diaporthe phaseolorum* var; *sojae*)
- Purple Seed Stain (*Cercospora kikuchii*)
- Rhizoctonia Root Rot (*Rhizoctonia solani*)
- Phytophthora Rot (*Phytophthora megasperma* var. *sojae*)
- ★  Race 1  Race 2  Race 3  Race 4  Race 5  Race 6  Race 7
- Race 8  Race 9  Other (Specify) \_\_\_\_\_

## VIRAL DISEASES:

- Bud Blight (Tobacco Ringspot Virus)
- Yellow Mosaic (Bean Yellow Mosaic Virus)
- ★  Cowpea Mosaic (Cowpea Chlorotic Virus)
- Pod Mottle (Bean Pod Mottle Virus)
- ★  Seed Mottle (Soybean Mosaic Virus)

## NEMATODE DISEASES:

- Soybean Cyst Nematode (*Heterodera glycines*)
- ★  Race 1  Race 2  Race 3  Race 4  Other (Specify) Race 5
- Lance Nematode (*Hoplolaimus Colombus*)
- ★  Southern Root Knot Nematode (*Meloidogyne incognita*)
- ★  Northern Root Knot Nematode (*Meloidogyne Hapla*)
- Peanut Root Knot Nematode (*Meloidogyne arenaria*)
- Reniform Nematode (*Rotylenchulus reniformis*)
- OTHER DISEASE NOT ON FORM (Specify): \_\_\_\_\_

## 20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ★  Iron Chlorosis on Calcareous Soil
- Other (Specify) \_\_\_\_\_

## 21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- Mexican Bean Beetle (*Epilachna varivestis*)
- Potato Leaf Hopper (*Empoasca fabae*)
- Other (Specify) \_\_\_\_\_

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

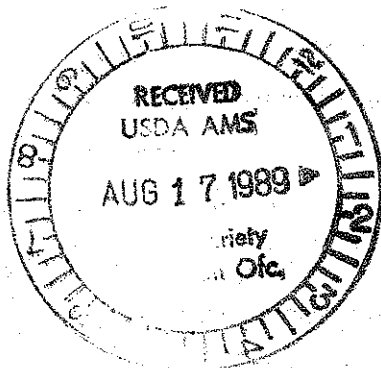
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	Coker 485	Seed Coat Luster	Coker 156
Leaf Shape	Coker 156	Seed Size	Coker 156
Leaf Color	Coker 156	Seed Shape	Coker 485
Leaf Size	Coker 156	Seedling Pigmentation	Coker 156

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/POD
				CM Width	CM Length	% Protein	% Oil		
6955 Submitted	135	1.3	71	11.6	6.1	40.19	22.91	12.9	2/3
Forrest Name of Similar Variety	137	1.6	74	11.1	5.6	38.96	23.12	12.0	2/3

## PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.





**EXHIBIT D****ADDITIONAL DESCRIPTION OF THE VARIETY 6955**

6955 is a mid-group V soybean variety, maturing 1-2 days later than A5474 and 2-3 days earlier than Forrest. Tests conducted by Mobay Chemical Corporation indicate that 6955 has above average tolerance to the herbicide Metribuzin.

**EXHIBIT E****STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP OF 6955**

Soybean variety 6955 was developed by the soybean breeding staff of Coker Pedigreed Seed Company, which was purchased by Northrup King Co. in July 1988. The germplasm used in development of 6955 is cited in Exhibit A of this application. Northrup King Co. believes the variety is novel as defined by the Plant Variety Protection Act; and therefore, that Northrup King Co. is the sole owner of the variety.